



VALVE AND FLOW CONTROL SPECIALISTS
SERVICE AND RELIABILITY

**Fugitive emission compliance for ¼ turn valves such as ball and plug valves
Figure VBL-SESEMP**

In 1964 Germany led the world with the introduction of a Clean Air Control Regulation known as TA-Luft. This regulation, Technical Instructions on Air Quality Control (TA-Luft) has been updated over the years (the last being in 2002) to take into consideration increased industry scope and technical innovation enhancements to industrial facilities such as nuclear power production. Industries such as Chemical plants, Refineries, Power Generation, Mining, Glass manufacturing, and Food processing were listed as areas where compliance was required.

Sampling, measuring and monitoring was required particularly focused on hazardous emissions such as ammonia, sulphur, nitrogen, hydrofluoric acid, nickel, lead etc. So successful this then spread to other organic and inorganic pollutants. Other countries around the world introduced their own Clean Air Acts in time however TA-Luft is still viewed as the flagship with regards specification and monitoring.



With the advent of the ball valve in production in the 60's and its fixed gland this was an area that had to be addressed by facilities initially by use of better packing materials. This was really only a bandage approach and the design was still somewhat flawed as the actuation market boomed in the 80's and did not allow for the millions of cycles these valves then had to cope with. Some manufacturers introduced belleville washers in their packings making them "live loading" and this was the best that could be achieved... till the recent introduction of the Fugitive Emission Stem Extension. VCS now offer this designed specifically to comply with the TA-Luft requirements.

These extensions are also a very cost effective to lift actuation away from any heat in the production hence insulating the actuator particularly required on electrics to alleviate thermal cut outs, allows for lagging of pipework, and finally they give an additional DOUBLE sealing through a series of V chevrons and washers which are adjustable. They can also be tapped to measure their compliance if required.



The VBL-SESEMP stainless steel units are manufactured to suit ISO 5211 which means retrofitting of these to existing manufacturers valves on site is easy quick and very economical. Gaskets and bolting for attachment to the valve is included making them childs play to fit.

**EVERY PLANT SHOULD CONSIDER
THESE AS A STANDARD ON ¼ TURN
VALVING!**

Please feel free to contact us for further information on these or other types of general valving and emission controlled valves such as gates and globes!